## FIGURE 1

20

22 <person>
24 <name>John</name>
26 <surname>Smith</surname>
28 </person>

## FIGURE 2

40

42 <schema>
44 <element name="person">
46 <complex type>
48 <sequence>
50 <element name = "name">
52 <element name = "surname>
54 </sequence>
56 </complex type>
58 </element name>
60 </schema>

## FIGURE 3

70

```
72  class Person {
74      String name;
76      String surname;
78      String getName( ) { }
80      String getSurname( ) { }
82      void setName(String newName) { }
84      void setSurname(String newSurname) { }
    }
```

# FIGURE 4

90

```
92 ∿ class Person {
94 ∿ static class Name extends SimpleTypeString {
  96 ∿ public static String name() { return "name";}
  98 ∿ public Name(String v) { super (v):}
      }
100 ∿ static class Surname extends SimpleTypeString {
  102 ∿ public static String name() { return "surname";}
  104 ∿ public Surname(String v) { super (v);}
      }
106 ∿ protected void structure() {
  108 ∿ addParticle(new SequenceParticle(){
  110 ∿ protected void structure() {
  112 ∿ addParticle(new ElementParticle("name"));
  114 ∿ addParticle(new ElementParticle("surname"));
      }
    });
  }
}
```
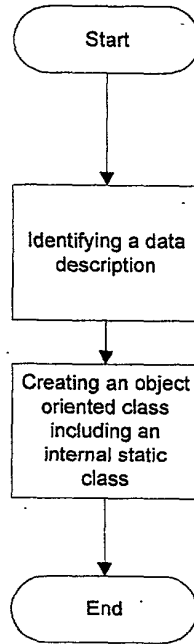
120

### Figure 5

Start

122

Identifying a data
description

124

Creating an object
oriented class
including an
internal static
class

End

Figure 6

130

```
        ┌──────────────┐
        │    Start     │
        └──────────────┘
               │
               ▼
132    ┌──────────────┐
       │  Receiving a │
       │    schema    │
       └──────────────┘
               │
               ▼
134    ┌──────────────┐
       │ Validating a │
       │    schema    │
       └──────────────┘
               │
               ▼
136    ┌──────────────┐
       │Creating object│
       │oriented classes│
       │  including an │
       │ internal static│
       │     class    │
       └──────────────┘
               │
               ▼
138    ┌──────────────┐
       │ Creating an  │
       │   instance   │
       └──────────────┘
               │
               ▼
140    ┌──────────────┐    ┌──────────────┐    ┌──────┐
       │Compiling the │───▶│Transmitting the│──▶│ End  │
       │   instance   │    │object oriented│    └──────┘
       └──────────────┘    │     code     │
                           └──────────────┘
                                142
```